



*The EFRC will pursue **multifunctional nanostructures** as the basis for a next generation of high performance electrical energy storage to:*

- power **electric vehicles** over long distances and recharge quickly, and
- capture, hold, and deliver energy from **renewable sources**.

EFRC features:

- Metal oxide and silicon nanowires to hold and cycle charge
- Carbon-nanowire composite nanostructures for faster charge transport and structural stability during charge cycling
- Fundamental understanding of nanostructure synthesis, properties, and electrochemical behavior, supported by novel instruments and theory
- Uniform, predictable structures for scientific analysis and as prototypes of massive arrays in future technology

